



POLYCAB

Connection Zindagi Ka

SOLAR

POLYCAB SOLAR GRID TIE INVERTERS

SUITABLE FOR RESIDENTIAL & COMMERCIAL ROOFTOP SOLAR PROJECTS

THREE PHASE & DUAL MPPT

PSIT-5K-SM2, PSIT-6K-SM2, PSIT-8K-SM2, PSIT-10K-SM2,
PSIT-12K-SM3, PSIT-15K-SM3, PSIT-20K-SM4, PSIT-25K-SM4, PSIT-30K-SM4

Leading Features

Superior Efficiency

- Maximum efficiency 98.4%
- Maximum String Current, compatible with 600W+ modules
- 150% PV configuration, 110% output overload

High Reliability

- Die-cast aluminum case, IP66 waterproof and dustproof, C5 anti corrosion
- DC / AC surge protections.
- Compatible with wide power grid voltage and high harmonic power grid environment

Intelligent Maintenance

- App quick commissioning
- Remote configuration and upgrade
- Supports export control



POLYCAB SOLAR GRID TIE INVERTERS SUITABLE FOR COMMERCIAL RESIDENTIAL & ROOFTOP SOLAR PROJECTS

TECHNICAL SPECIFICATIONS										
MODEL	PSIT-5K-SM2	PSIT-6K-SM2	PSIT-8K-SM2	PSIT-10K-SM2	PSIT-12K-SM3	PSIT-15K-SM3	PSIT-20K-SM4	PSIT-25K-SM4	PSIT-30K-SM4	
Rating	5 KW	6 KW	8 KW	10 KW	12 KW	15 KW	20 KW	25 KW	30 KW	
INPUT (PV)										
Max. Input Voltage	1100V									
Max. PV configuration	150%									
Rated Input Voltage	620V									
Max. Input Current	15A + 15A			15A + 30A			30A + 30A		40A + 30A	
Max. Short Circuit Current	20A + 20A			20A + 40A			40A + 40A		50A + 37.5A	
Start Input Voltage	180V									
MPPT Operating Voltage Range	160V -1000V									
Max. Number of PV Strings	2(1/1)			3(1/2)			4(2/2)			
No. of MPPTs	2									
OUTPUT (GRID)										
Rated AC Active Power	5000W	6,000W	8,000W	10,000W	12,000W	15,000W	20,000W	25,000W	30,000W	
Max. AC Apparent Power	5500VA	6,600VA	8,800VA	11,200VA	13,200VA	16,700VA	22,000VA	27,500VA	33,000VA	
Max. AC Active Power (PF=1)	5500W	6,600W	8,800W	11,000W	13,200W	16,700W	22,000W	27,500W	33,000W	
Max. AC Output Current	3*8.4A	3*10.1A	3*13.4A	3*17A	3*20.2A	3*25.3A	3*33.7A	3*39.8A	3*50.2A	
Rated AC Voltage	380V/400V/415V, 3W+N+PE									
AC Voltage Range ¹	260V- 510V (Adjustable)									
Rated Grid Frequency	50Hz/60Hz									
Grid Frequency Range ²	45Hz-55Hz/55Hz -65Hz (Adjustable)									
THDI	<3%@Rated Power									
DC Current Injection	<0.5%@Rated Current									
Power Factor	> 0.99 Rated power (Adjustable 0.8 L D-0.8, L G)									
EFFICIENCY										
Max. Efficiency	98.2%			98.3%			98.4%			
European Efficiency	97.8%			97.8%			98.0%			
PROTECTION										
DC switch	Support									
Anti-islanding protection	Support									
AC overcurrent protection	Support									
AC short circuit protection	Support									
DC reverse connection	Support									
Surge Arrester	AC Type III / DC Type III									
Insulation detection	Support									
Leakage current protection	Support									
GENERAL										
Topology	Transformerless									
IP Rating	IP66									
Night Self Consumption	<1W									
Cooling	Natural cooling									
Operating Temperature Range	-25 ^o C -60 ^o C									
Relative Humidity Range	0 - 100%									
Max. Operating Altitude	4000m									
Noise	<30dB									
Dimensions (W*H*D)	398mm*460mm*190mm									
Weight	16 Kgs			18.7 Kgs			20 Kgs		21.5 Kgs	
HMI & COM										
Display	Wireless & APP+LED, LCD									
Communication	RS485, Optional : WiFi/GPRS/4G/LAN									
CERTIFICATION										
Grid Connection	IEC 61727									
Anti-Islanding Protection	IEC 62116									
Environmental Testing	IEC 60068-2 (1-2-14-30)									
Safety	IEC 62109-1, IEC 62109-2									
EMC	IEC 61000									
Efficiency Measurement	IEC 61683									
WARRANTY	7 Years									

NOTE :

①② The range of output voltage and frequency may vary depending upon different grid codes. Specifications are subject to change without advance notice.

Note: Specifications are subject to change

POLYCAB INDIA LIMITED (formerly known as 'Polycab Wires Limited')

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